

**BRUHAT BANGALORE MAHANAGARA PALIKE****DASARAHALLI ZONE**

Name of work: Improvements to Roads 5th 'B' Cross & 17th Cross & Other Cross Cross roads at MEI
Layout in Ward-14, Bagalagunte

JOB NUMBER.:

Sl. No		Unit	No	Dimension			Quantity	Rate In Rs.	Lakhs Amount In Rs.
				L	B	D			
1	KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 1.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 (Page No.-142 I.No-19.1 of KPWD S.R 2016-17)								
	MEI Layout	Cum							
	Desilting								
	5th B Cross Road		2	170.00	0.60	0.30	61.20 ✓		
	5th B Cross Road Opposite Road		2	90.00	0.60	0.30	32.40 ✓		
	17th Cross Road		2	250.00	0.60	0.30	90.00 ✓		
	4th A Cross Road		2	205.00	0.60	0.30	73.80 ✓		
	Cross Road 1		2	226.00	0.60	0.30	81.36 ✓		
			Total Qty				338.76 ✓	186.92 ✓	63321.02 ✓
2	Removing B.S.Slabs and stacking etc complete. (Page No. 25, I.No.5.32 of KPWD SR 2016-17)								
	MEI Layout	Sqm							
	5th B Cross Road		2	170.00	1.50		510.00 ✓		
	5th B Cross Road Opposite Road		2	90.00	1.50		270.00 ✓		
	17th Cross Road		2	250.00	1.50		750.00 ✓		
	4th A Cross Road		2	205.00	1.50		615.00 ✓		
	Cross Road 1		2	226.00	1.50		678.00 ✓		
			Total Qty				2823.00 ✓	65.72 ✓	185527.56 ✓
3	Refixing stone slabs of drains and pointing in C.M (1:3).(Page No.-25 I.No-5.33 of KPWD S.R 2016-17)								
	Consider 80% Refixing	Sqm							
	MEI Layout								
	5th B Cross Road		2	136.00	1.50		408.00 ✓		
	5th B Cross Road Opposite Road		2	72.00	1.50		216.00 ✓		
	17th Cross Road		2	200.00	1.50		600.00 ✓		
	4th A Cross Road		2	164.00	1.50		492.00 ✓		
	Cross Road 1		2	180.80	1.50		542.40 ✓		
			Total Qty				2258.40 ✓	80.56 ✓	181936.70 ✓
4	Providing granite Slabs of Selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., Complete. 10cms thick (P.No.25, I.No.5.31.2 of PW, P&IWD SR 2016-17)								
	Consider 20% New Slabs	Sqm							
	MEI Layout								
	5th B Cross Road		2	34.00	1.50		102.00 ✓		
	5th B Cross Road Opposite Road		2	18.00	1.50		54.00 ✓		
	17th Cross Road		2	50.00	1.50		150.00 ✓		
	4th A Cross Road		2	41.00	1.50		123.00 ✓		
	Cross Road 1		2	45.20	1.50		135.60 ✓		
			Total Qty				564.60 ✓	825.74 ✓	466212.80 ✓
5	KSRRB 200-8. Clearing and grubbing road land including uprooting rank vegetation, grass, brush, shrubs, saplings and trees of girth upto 300mm, by manual means, in area of thorny jungle, removal of stumps, disposal of unserviceable materials, stacking of serviceable materials labour charges complete as per specifications. MORTH / Chapter 2 (Page No.-136, I.No.-18.12 of KPWD S.R 2016-17).								
	BC Road	Sqm							
	MEI Layout								
	5th B Cross Road		2	170.00	0.50		170.00 ✓		
	5th B Cross Road Opposite Road		2	90.00	0.50		90.00 ✓		
	17th Cross Road		2	250.00	0.50		250.00 ✓		
	4th A Cross Road		2	205.00	0.50		205.00 ✓		
	Cross Road 1		2	226.00	0.50		226.00 ✓		
			Total Qty				941.00 ✓	9.54 ✓	8977.14 ✓

Sl. No	Unit	No	Dimension			Quantity	Rate in Rs.	Amount in Rs.
			L	B	D			
6	Earth work in soil with hydraulic excavator of 0.9 cu.m. bucket capacity including cutting and loading in tippers, trimming bottom and side slopes. In accordance with requirements of lines, grades and cross sections, and transporting to the embankment location and complete as per specifications. (Page No.-143, I.No.-19.14 of KPWD S.R 2016-17).							
	BC Road							
	MEI Layout							
	5th B Cross Road Opposite Road	1	60.00	5.00	0.30	90.00		
	Pipe Line Cutting							
	5th B Cross Road	1	170.00	1.00	0.30	51.00		
	4th A Cross Road	1	205.00	1.00	0.30	61.50		
	Cross Road 1	1	226.00	1.00	0.30	67.80		
	Pot Hole	54	2.00	1.50	0.30	48.60		
	Road Cutting	47	5.50	0.30	0.30	23.27		
	CC Road							
	17th Cross Road	1	30.00	4.50	0.30	40.50		
	Road Cutting	50	5.50	0.30	0.30	24.75		
		Total Qty	407.42			148.76		60607.06
7	KSRRB M400-6.1. Construction of granular sub-base of Grading II Material by providing close graded material, mixing in a mechanical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications. A. Plant Mix Method (Page No.-155, I.No.-20.4.2 of KPWD S.R 2016-17)							
	BC Road							
	MEI Layout							
	5th B Cross Road Opposite Road	1	60.00	5.00	0.15	45.00		
	Pipe Line Cutting							
	5th B Cross Road	1	170.00	1.00	0.15	25.50		
	4th A Cross Road	1	205.00	1.00	0.15	30.75		
	Cross Road 1	1	226.00	1.00	0.15	33.90		
	Pot Hole	54	2.00	1.50	0.15	24.30		
	Road Cutting	47	5.50	0.30	0.15	11.63		
	CC Road							
	17th Cross Road	1	30.00	4.50	0.15	20.25		
	Road Cutting	5	5.50	0.30	0.15	1.24		
		Total Qty	192.57			1665.26		320679.12
8	KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occurring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / Chapter Page no -149.Item.No 19.64 of KPWD S.R 2016-17)							
	BC Road							
	MEI Layout							
	5th B Cross Road Opposite Road	1	60.00	5.00		300.00		
	Pipe Line Cutting							
	5th B Cross Road	1	170.00	1.00		170.00		
	4th A Cross Road	1	205.00	1.00		205.00		
	Cross Road 1	1	226.00	1.00		226.00		
	Pot Hole	54	2.00	1.50		162.00		
	Road Cutting	47	5.50	0.30		77.55		
		Total Qty	1140.55			5.30		6044.92
9	KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap I basalt to wet mix macadam specifications including pre mixing the material with water at OMC mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 (Page No.-158, I.No.-20.18 of KPWD S.R 2016-17).							
	BC Road							
	MEI Layout							
	5th B Cross Road Opposite Road	1	60.00	5.00	0.20	60.00		
	Pipe Line Cutting							
	5th B Cross Road	1	170.00	1.00	0.20	34.00		
	4th A Cross Road	1	205.00	1.00	0.20	41.00		
	Cross Road 1	1	226.00	1.00	0.20	45.20		
	Pot Hole	54	2.00	1.50	0.20	32.40		
	Road Cutting	47	5.50	0.30	0.20	15.51		
		Total Qty	228.11			1768.08		403316.73

Sl. No		Unit	No	Dimension			Quantity	Rate In Rs.	Amount in Rs.	
				L	B	D				
10	KSRRB M500-6. Providing and applying primer coat with bitumen emulsion on prepared surface of granular base including clearing of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. MORTH Specification No. 502 (Page No,-161, I.No.-21.6 of KPWD S.R 2016-17).									
	BC Road	Sqm								
	MEI Layout									
	Pipe Line Cutting									
	5th B Cross Road		1	170.00	1.00		170.00	✓		
	4th A Cross Road		1	205.00	1.00		205.00	✓		
	Cross Road 1		1	226.00	1.00		226.00	✓		
	Pot Hole		54	2.00	1.50		162.00	✓		
	Road Cutting		47	5.50	0.30		77.55	✓		
	Profile Correction									
	5th B Cross Road		1	170.00	1.80		306.00	✓		
	5th B Cross Road Opposite Road		1	60.00	1.80		108.00	✓		
	4th A Cross Road		1	205.00	1.80		369.00	✓		
	Cross Road 1		1	226.00	1.80		406.80	✓		
	Total Qty						2030.35	27.56	55956.45	
11	KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH specification clause 501 (Page No:160, Item No:21.2 SR:2015-16)									
	BC Road	Sqm								
	MEI Layout									
	5th B Cross Road		1	170.00	5.00		850.00	✓		
	4th A Cross Road		1	205.00	5.00		1025.00	✓		
	Cross Road 1		1	226.00	5.00		1130.00	✓		
	CC Road									
	17th Cross Road		1	90.00	5.50		495.00	✓		
	Total Qty						3500.00	3.18	11130.00	
12	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VGIO) on the prepared black topped surfaces at 2.5 kg per 10sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications.MORTH (Page No,-160, I.No.-21.7 of KPWD S.R 2016-17).									
	BC Road	Sqm								
	MEI Layout									
	5th B Cross Road		1	170.00	5.00		850.00	✓		
	5th B Cross Road Opposite Road		1	60.00	5.00		300.00	✓		
	4th A Cross Road		1	205.00	5.00		1025.00	✓		
	Cross Road 1		2	226.00	5.00		2260.00	✓		
	Total Qty						4435.00	12.72	56413.20	
13	KSRRB M500-17. Providing and laying dense graded bituminous macadam using 100/120 TPH capacity H.M.P. with sensor paver Gr-li (50 mm to 75 mm) with 4.5 % VG-30 Bitumen grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications. (Page No,-163, I.No.-21.17.6 of KPWD S.R 2016-17).									
	BC Road	Cum								
	MEI Layout									
	Profile Correction									
	5th B Cross Road		1	170.00	1.80	0.05	15.30	✓		
	5th B Cross Road Opposite Road		1	60.00	1.80	0.05	5.40	✓		
	4th A Cross Road		1	205.00	1.80	0.05	18.45	✓		
	Cross Road 1		1	226.00	1.80	0.05	20.34	✓		
	Total Qty						59.49	7120.02	423569.99	

Sl. No		Unit	No	Dimension			Quantity	Rate in Rs.	Amount in Rs.
				L	B	D			
14	KSRRB M500-19. Providing and laying bituminous concrete 40 mm thick with hot mix plant, using 40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 45 mm) with 5.4 % VG-30 Bitumen using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 500.9 complete in all respects complete as per specifications. MORTH Specification (Page No.-165, I.No.-21.22.6 of KPWD S.R 2016-17).								
	BC Road	Cum							
	MEI Layout								
	5th B Cross Road		1	170.00	5.00	0.04	34.00		
	5th B Cross Road Opposite Road		1	60.00	5.00	0.04	12.00		
	4th A Cross Road		1	205.00	5.00	0.04	41.00		
	Cross Road 1		1	226.00	5.00	0.04	45.20		
			Total Qty				132.20	8118.54	1073270.99
15	Road Marking with Hot Applied Thermoplastic Compound with Reflecting Glass Beads on Bituminous Surface - Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sq.m. area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC :35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. (Page No.-185, I.No.-24.15 of KPWD S.R 2016-17).								
	Edge Lane	Sqm							
			2.5	661.00	0.15		247.88		
			Total Qty				247.88	542.72	134526.72
16	KSRB 4-1.3 : Providing and laying in position plain cement concrete cum of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. (Page No. 12, It No. 4.3 of KPWD S.R 2016-17)								
	CC Road	Cum							
	17th Cross Road		1	48.00	4.50	0.15	32.40		
	Road Cutting		5	5.50	0.30	0.15	1.24		
			Total Qty				33.64	5159.02	173536.54
17	Cement concrete pavement. Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 with 25mm and down size graded granite metal coarse aggregates and fine aggregates, with superplasticiser @ 3lts conforming to IS9103-1999 Reaffirmed-2008, mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing) & spreading the concrete with shovels, rammers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, including curing, finishing to lines and grades as per drawing complete as per specifications. M30 (at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum) (Page No.-177 I.No-22.6.1 of KPWD S.R 2016-17)								
	CC Road	Cum							
	17th Cross Road		1	48.00	4.50	0.15	32.40		
			1	90.00	5.50	0.15	74.25		
			Total Qty				106.65	6217.96	663145.43
18	Vaccum de-watering with vacuum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift. (Page No.-177 I.No-22.7 of KPWD S.R 2016-17)								
	CC Road	Sqm							
	17th Cross Road		1	48.00	4.50		216.00		
			1	90.00	5.50		495.00		
			Total Qty				711.00	95.40	67829.40

Certificate:-

-  CamScanner